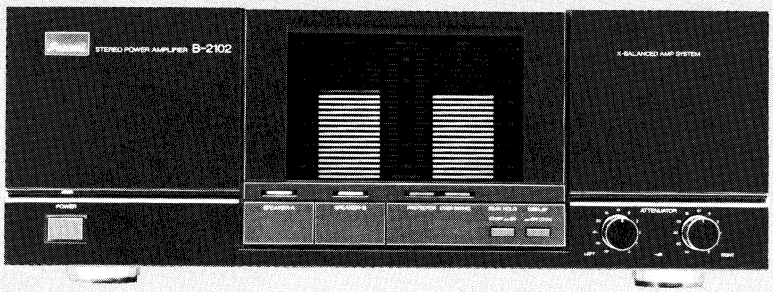
SERVICE MANUAL

STEREO POWER AMPLIFIER

SANSUI B-2102



CAUTION

1. Parts identified by the ⚠ symbol on the schematic diagram and the parts list are critical for safety. Use only replacement parts that have critical characteristics recommended by the manufacturer.
2. Make leakage-current or resistance measurements to determine that exposed parts are acceptably insulated from the supply circuit before returning the appliance to the customer.

Sansui

SANSUI ELECTRIC CO., LTD.

•SPECIFICATIONS

Power output
Min. RMS, both channels driven, from 20 to 20,000 Hz, with no more than 0.003% total harmonic distortion.
200 watts per channel into 8 ohms
Load impedance..... 4 to 16 ohms
Total harmonic distortion
..... less than 0.003% at or below rated min. RMS power output
Intermodulation distortion
(60 Hz: 7 kHz=4:1, SMPTE method)
..... less than 0.003% at rated power output
Frequency response (at 1 watt)
..... DC to 300,000 Hz, +0 dB, −3.0 dB
Input sensitivity and impedance (at 1 kHz)
..... 1 V/5.6 kohms
Signal to noise ratio (short-circuit, A-network)
..... 115 dB
Power requirements
Power voltage..... 120/220/240V (50/60 Hz)
For U.S.A. & Canada
..... 120V (60 Hz)
Power consumption.... 650 watts 750 VA Rated
950 watts Maximum
Dimensions..... 430 mm (16-15/16") W
160 mm (6-5/16") H
412 mm (16-1/4") D
Weight..... 17.7 kg (39.0 lbs) net
19.5 kg (43.0 lbs) packed

* Design and specifications subject to changes without notice for improvements.
* Due to local laws and regulations, this unit sold in some areas are not equipped with variable voltage selectors.

CAUTION

1. The symbols, UL, CSA, SA, BS, UK, EU, AS, SEV, XX <EXPORT> and XX-V <EXPORT(V)> on the parts list and the schematic diagram mean followings respectively.

   UL..... Manufactured for U.S.A market.
   (Underwriters Laboratories approved model.)
   CSA..... Manufactured for Canadian market.
   SA..... Manufactured for South African market.
   BS, UK ..... Manufactured for United Kingdom market.
   EU ..... Manufactured for European market.
   AS..... Manufactured for Australian market.
   SEV ..... Manufactured for Swiss market.
   XX..... Standard Version with Inner Voltage Selector.
   <EXPORT>
   XX-V ..... Standard Version with Outer Voltage Selector.
   <EXPORT(V)>
   NON MARK ..... Common Parts.

2. Some printed circuit boards are not supplied assembled. To separate these in this service manual, the stock numbers are not indicated for these boards. However, stock numbers for individual parts are indicated.

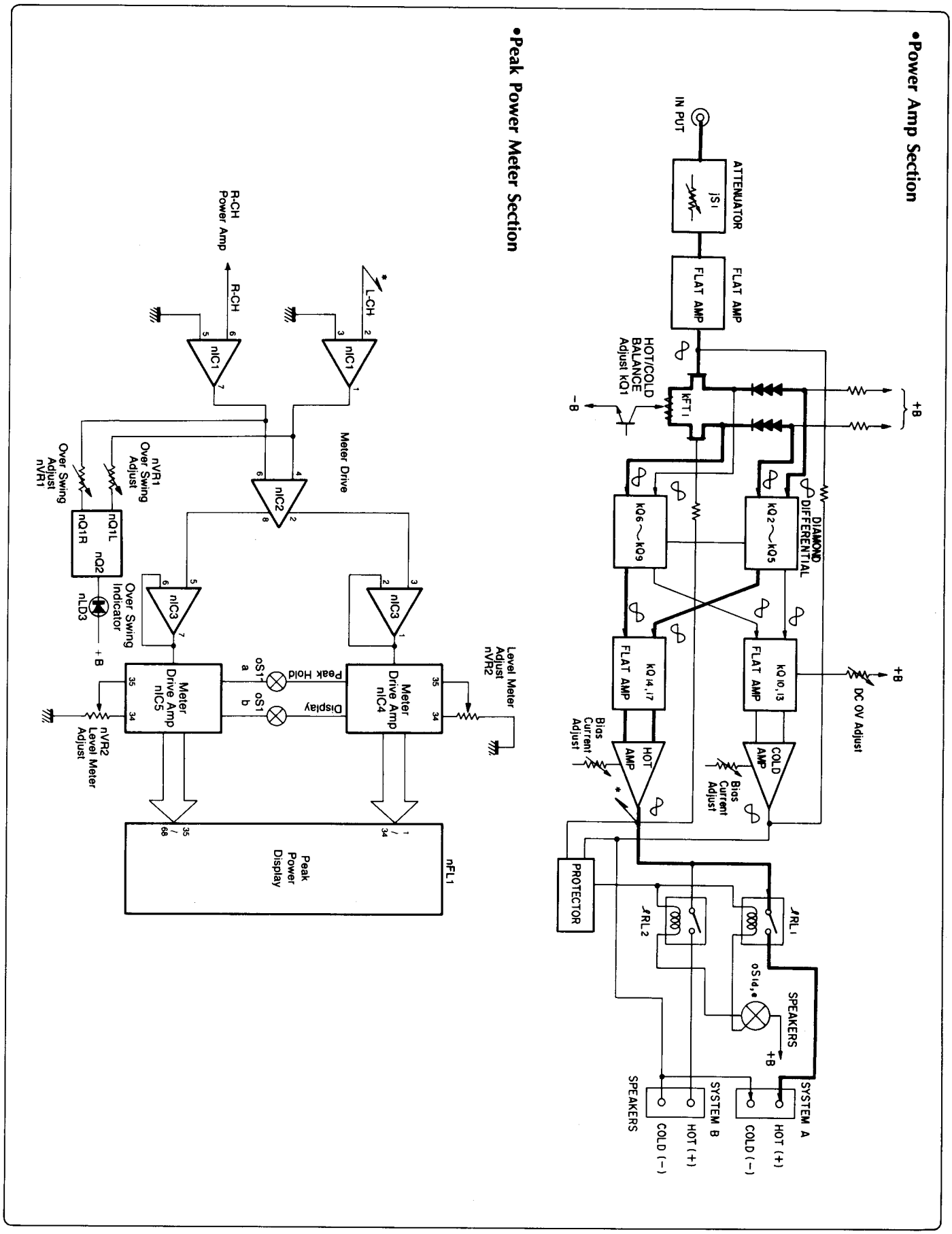
3. Since some capacitors and resistors are omitted from parts lists in this service manual, refer to the Common Parts List for capacitors & resistors, which was issued on February 1983.

4. Abbreviations in this service manual are as follows.

•Abbreviations List

C.R.	: Carbon Resistor	E.B.L.	: Low Leak Bi-Polar Electrolytic Capacitor
S.R.	: Solid Resistor		
Ce.R.	: Cement Resistor	Ta.C.	: Tantalum Capacitor
M.R.	: Metal Film Resistor	F.C.	: Film Capacitor
F.R.	: Fusing Resistor	M.P.	: Metalized Paper Capacitor
N.I.R.	: Non-Inflammable Resistor	P.C.	: Polystyrene Capacitor
A.R.	: Array Resistor	G.C.	: Gimmic Capacitor
C.C.	: Ceramic Capacitor	A.C.	: Array Capacitor
C.T.	: Ceramic Capacitor, Temperature Compensation	V.R.	: Variable Resistor
		S.V.R.	: Semi Variable Resistor
E.C.	: Electrolytic Capacitor	SW.	: Switch
E.L.	: Low Leak Electrolytic Capacitor	Chip R.	: Chip Resistor
		Chip C.	: Chip Capacitor
E.B.	: Bi-Polar Electrolytic Capacitor		

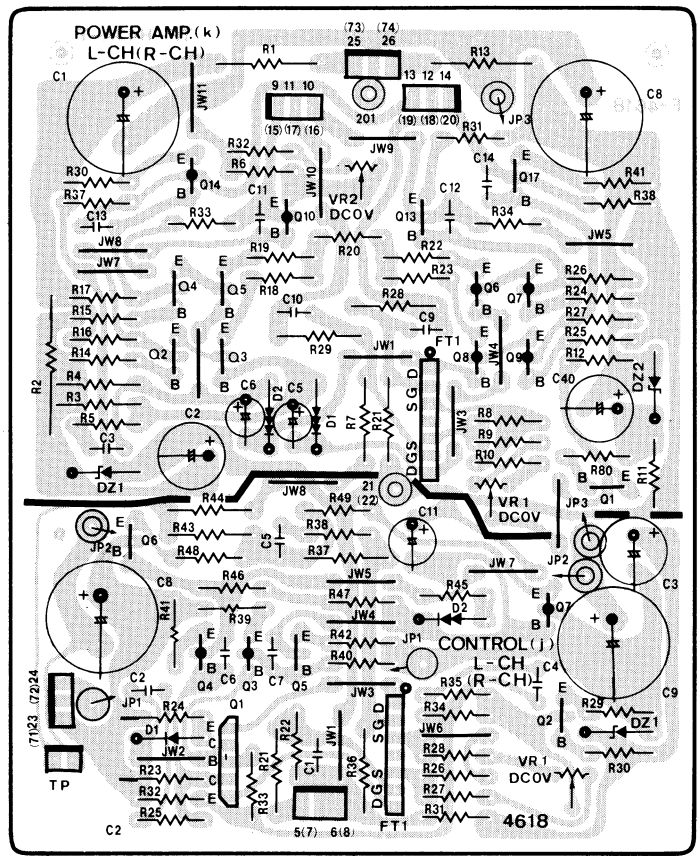
1. BLOCK DIAGRAM



2. PARTS LOCATION ON BOARD

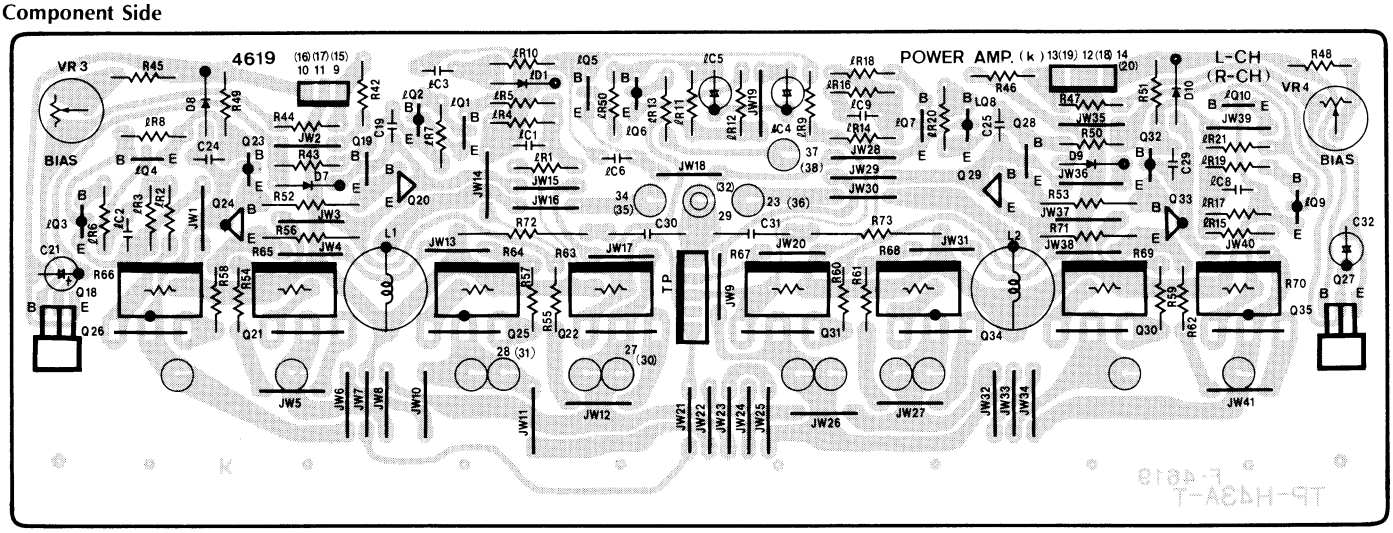
2-1. F-4618 Drive Amp Board

Component Side



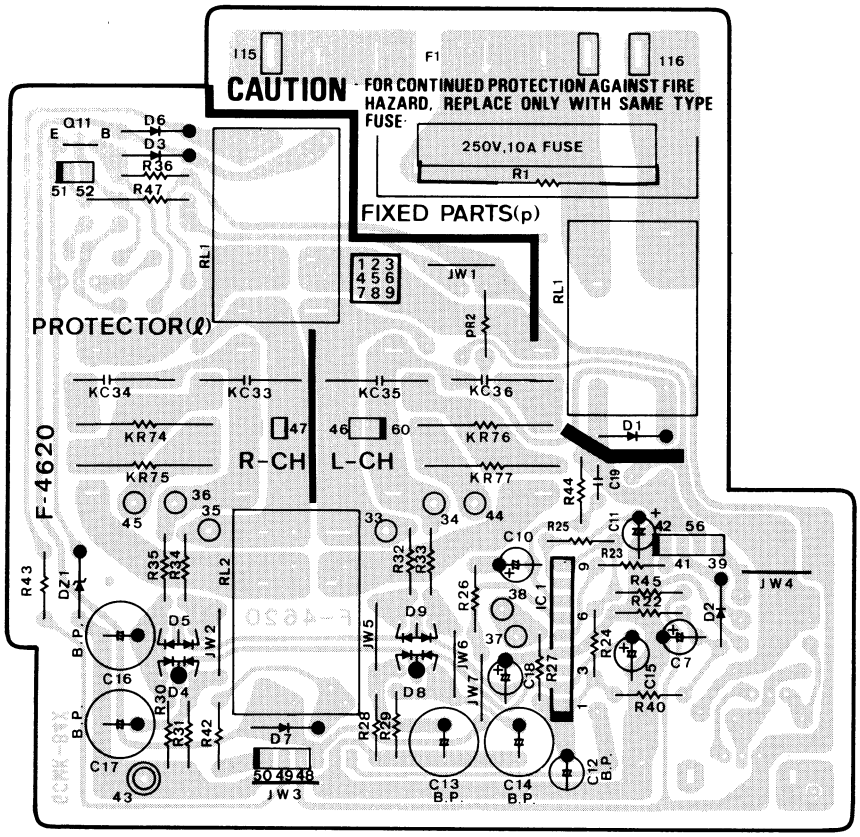
2-2. F-4619 Power Amp Board

Component Side



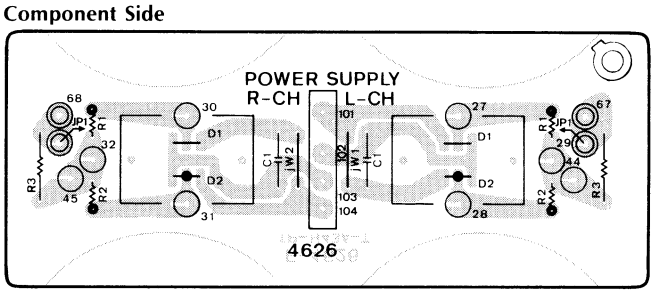
2-3. F-4620 Protector Board

Component Side



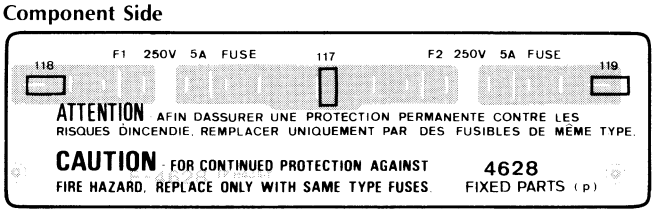
2-4. F-4626 Power Supply Board

Component Side



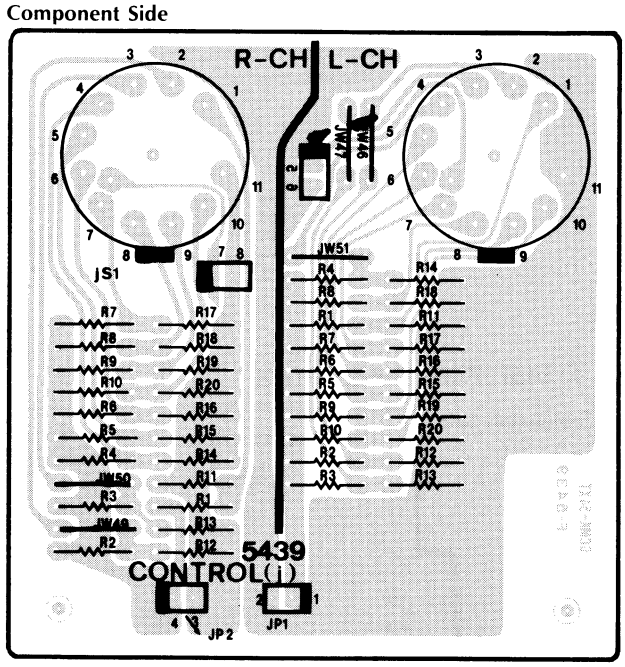
2-5. F-4628 AC Fuse Board

Component Side



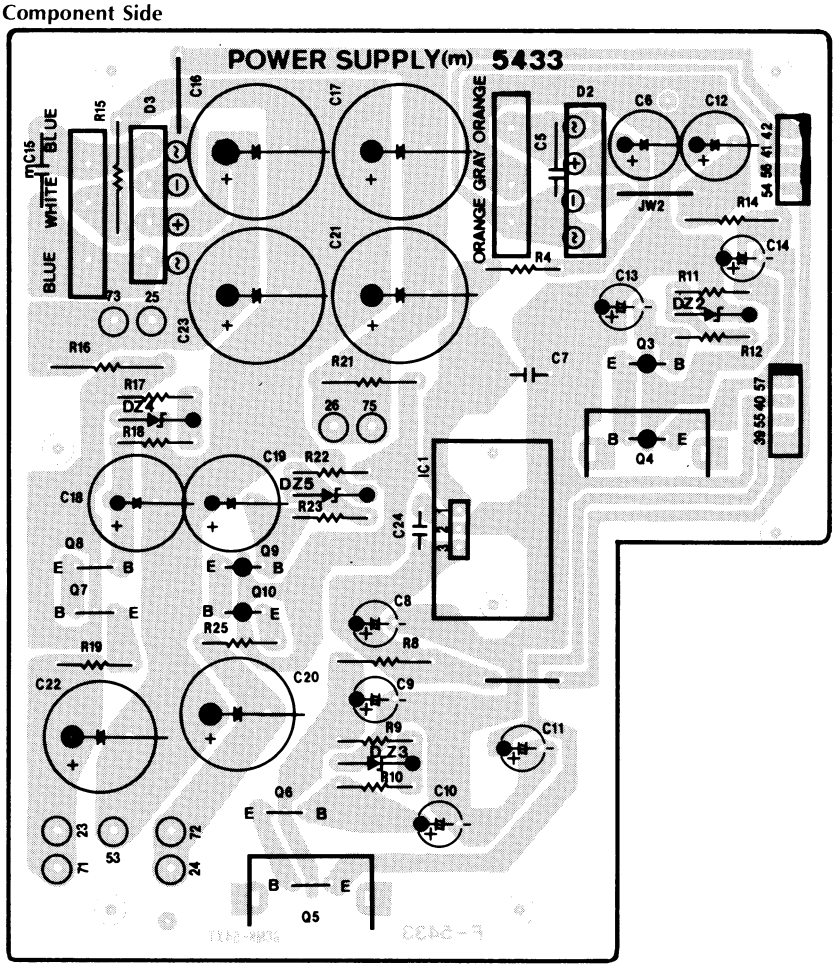
2-6. F-5439 Control Board

Component Side



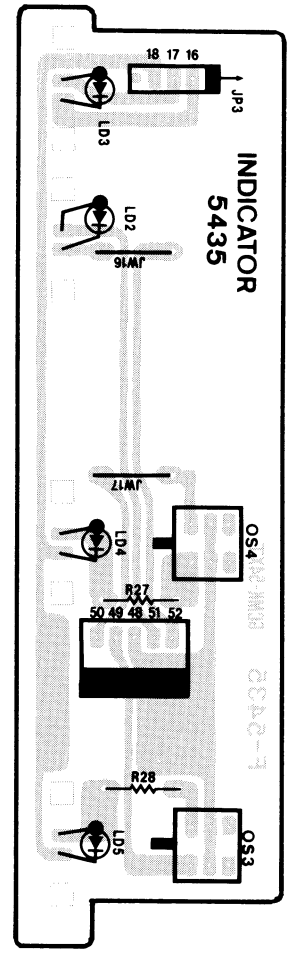
2-7. F-5433 Power Supply Board

Component Side



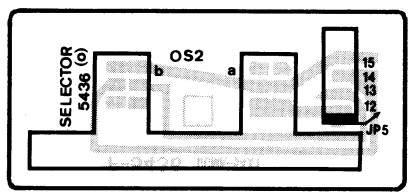
2-8. F-5435 Speaker Switch Board

Component Side



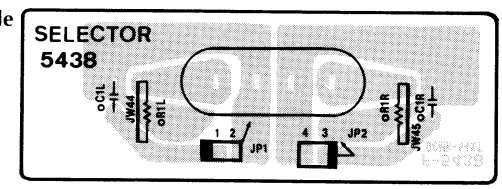
2-9. F-5436 Display Switch Board

Component Side



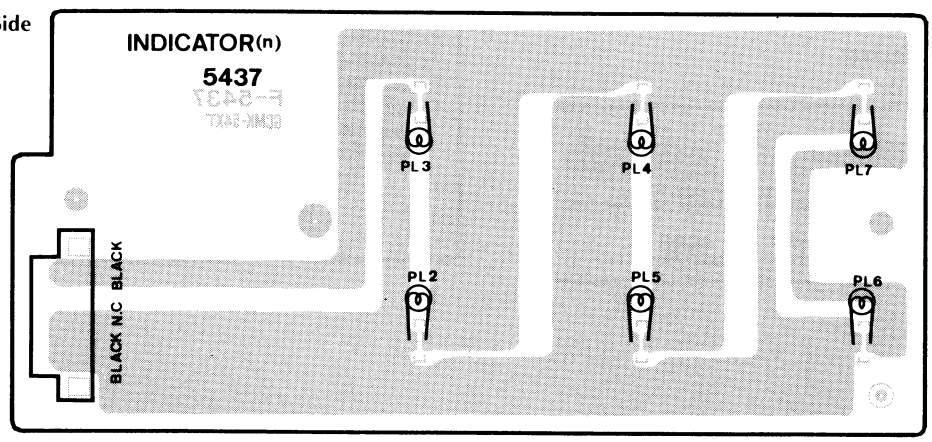
2-10. F-5438 Input Terminal Board

Component Side



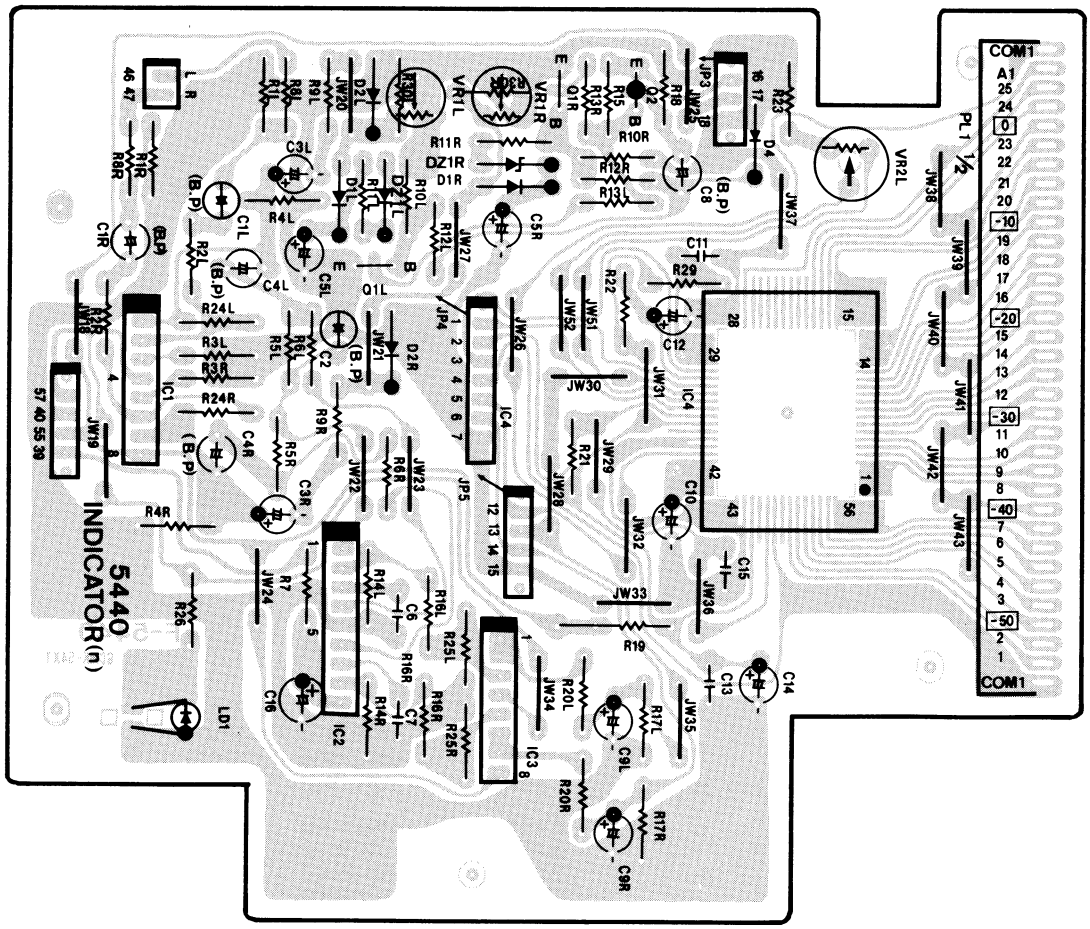
2-11. F-5437 Pilot Lamp Board

Component Side



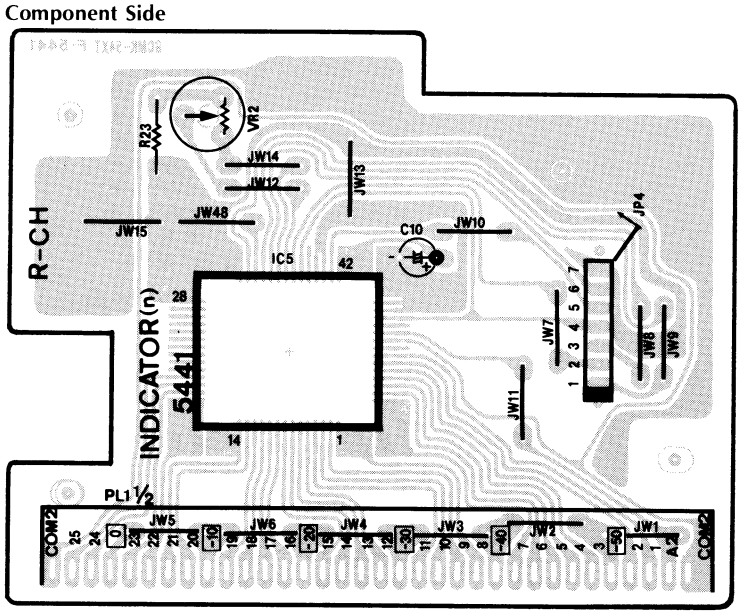
2-12. F-5440 L-ch Indicator Board

Component Side



2-13. F-5441 R-ch Indicator Board

Component Side



3. PARTS LIST OF BOARD

3-1. F-4618 Drive Amp Board (Stock No. 00985601)

Parts No.	Stock No.	Description
•Transistor		
jQ1	03068801	2SC2291
jQ2	46581701	2SC1845
jQ3	46581601	2SA992
jQ4	46581601	2SA992
jQ5	46581701	2SC1845
jQ6	46728301	2SC2705
jQ7	46728201	2SA1145
•FET		
jFT1	48583300	μPA68HA-L
	or 48583301	μPA68HA-M
•Diode		
jD1	03117600	1S2473T77
	or 46086000	1S1588TP-3
jD2	03401500	Varistor MV12
•Zener Diode		
jDZ1	46111800	05Z6.2-Y
jR43	46004500	680Ω 1/2W C.R.
jR44	46002700	120Ω 1/2W C.R.
⚠jR48	00134100	33Ω 1/2W N.I.R.
⚠jR49	00134100	33Ω 1/2W N.I.R.
jC2	46661700	1000pF 100V F.C.
jC4	46661700	1000pF 100V F.C.
jVR1	10335700	100Ω (B) S.V.R., Center DC 0V
•Transistor		
kQ1	46581701	2SC1845
kQ2	46581701	2SC1845
kQ3	46581701	2SC1845
kQ4	46581701	2SC1845
kQ5	46581701	2SC1845
kQ6	46581601	2SA992
kQ7	46581601	2SA992
kQ8	46581601	2SA992
kQ9	46581601	2SA992
kQ10	46728201	2SA1145
kQ13	46728301	2SC2705
kQ14	46728201	2SA1145
kQ17	46728301	2SC2705
•FET		
kFT1	48583300	μPA68HA-L
	or 48583301	μPA68HA-M
kD1	03401700	Varistor MV103
kD2	03401700	Varistor MV103
•Zener Diode		
kDZ1	03171900	RD27F
kDZ2	46114800	05Z16-Y
⚠kR1	00134100	33Ω 1/2W N.I.R.
⚠kR2	00191400	680Ω 2W N.I.R.
⚠kR6	00133600	270kΩ 1/2W N.I.R.
kR7	46006300	3.9kΩ 1/2W C.R.
⚠kR13	00134100	33Ω 1/2W N.I.R.
kR21	46006500	4.7kΩ 1/2W C.R.
⚠kR30	00131500	120Ω 1/2W N.I.R.
⚠kR31	00131500	120Ω 1/2W N.I.R.
⚠kR32	00131500	120Ω 1/2W N.I.R.
⚠kR41	00131500	120Ω 1/2W N.I.R.
kC3	46662100	1500pF 100V F.C.
kVR1	10335700	100Ω (B) S.V.R., Hot/Cold Balance
kVR2	10336100	470Ω (B) S.V.R., DC 0V

3-2. F-4619 Power Amp Board (Stock No. 00985701 = XX-V,EU,UK,SEV/Stock No. 00985703 = CSA)

Parts No.	Stock No.	Description
•Transistor		
⚠kQ18	03067401	2SC1845
kQ19	46728301	2SC2705
kQ20	46728901	2SC3298
	or 48158701	2SC2591
⚠kQ21	46729901	2SC3519
⚠kQ22	46729901	2SC3519
kQ23	46728201	2SA1145
kQ24	46728801	2SA1306
	or 48158601	2SA1111
⚠kQ25	46729801	2SA1386
⚠kQ26	46729801	2SA1386
⚠kQ27	03067401	2SC1845
kQ28	46728301	2SC2705
kQ29	46728901	2SC3298
	or 48158701	2SC2591
⚠kQ30	46729901	2SC3519
⚠kQ31	46729901	2SC3519
kQ32	46728201	2SA1145
⚠kQ33	46728801	2SA1306
⚠	or 48158601	2SA1111
⚠kQ34	46729801	2SA1386
⚠kQ35	46729801	2SA1386
•Diode		
kD7	46727900	1S2091
kD8	46727900	1S2091
kD9	46727900	1S2091
kD10	46727900	1S2091
⚠kR43	46229000	100Ω 1/2W N.I.R. <CSA only>
⚠kR49	46229000	100Ω 1/2W N.I.R. <CSA only>
⚠kR52	00136000	560Ω 1/2W N.I.R.
⚠kR54	00135800	4.7Ω 1/2W N.I.R.
⚠kR55	00135800	4.7Ω 1/2W N.I.R.
⚠kR56	00131500	120Ω 1/2W N.I.R.
⚠kR57	00135800	4.7Ω 1/2W N.I.R.
⚠kR58	00135800	4.7Ω 1/2W N.I.R.
⚠kR59	00135800	4.7Ω 1/2W N.I.R.
⚠kR60	00135800	4.7Ω 1/2W N.I.R.
⚠kR61	00135800	4.7Ω 1/2W N.I.R.
⚠kR62	00135800	4.7Ω 1/2W N.I.R.
⚠kR63	46542800	0.22Ω 5W Ce.R.
⚠kR64	46542800	0.22Ω 5W Ce.R.
⚠kR65	46542800	0.22Ω 5W Ce.R.
⚠kR66	46542800	0.22Ω 5W Ce.R.
⚠kR67	46542800	0.22Ω 5W Ce.R.
⚠kR68	46542800	0.22Ω 5W Ce.R.
⚠kR69	46542800	0.22Ω 5W Ce.R.
⚠kR70	46542800	0.22Ω 5W Ce.R.
⚠kR72	00185500	10Ω 2W N.I.R.
⚠kR73	00185500	10Ω 2W N.I.R.
kC30	00411600	47000μF 400V P.C.
kC31	00411600	47000μF 400V P.C.
kL1	46851900	Inductor 0.8μH
kL2	46851900	Inductor 0.8μH
kVR3	10342100	1kΩ (B) S.V.R., Bias Adjust
kVR4	10342100	1kΩ (B) S.V.R., Bias Adjust
•Transistor		
lQ1	46367101	2SC2603
lQ2	46367001	2SA1115
lQ3	46367001	2SA1115
lQ4	46367101	2SC2603
lQ5	46367101	2SC2603
lQ6	46367001	2SA1115
lQ7	46367101	2SC2603

to be continued ►

<F-4619>

Parts No.	Stock No.	Description
IQ8	46367001	2SA1115
IQ9	46367001	2SA1115
IQ10	46367101	2SC2603
•Diode		
ID1	03117600	1S2473T77
	or 46086000	1S1588TP-3
IC1	46655600	1000pF 100V F.C.
IC2	46655600	1000pF 100V F.C.
IC3	46654800	470pF 100V F.C.
IC6	46283300	0.022μF 50V F.C.
IC8	46655600	1000pF 100V F.C.
IC9	46655600	1000pF 100V F.C.

3-3. F-4620 Protector Board (Stock No. 00986101)

Parts No.	Stock No.	Description
⚠kR74	00185500	10Ω 2W N.I.R.
⚠kR75	00185500	10Ω 2W N.I.R.
⚠kR76	00185500	10Ω 2W N.I.R.
⚠kR77	00185500	10Ω 2W N.I.R.
kC33	00411600	47000μF 400V P.C.
kC34	00411600	47000μF 400V P.C.
kC35	00411600	47000μF 400V P.C.
kC36	00411600	47000μF 400V P.C.
•Transistor		
IQ11	07194801	2SC1815
•IC		
IIC1	46207600	TA7317P
•Diode		
ID2	03117700	10E-2
ID3	03111800	1S1588
	or 07176400	1S2473HS
ID4	46463700	MC911
ID5	46463900	MC921 (Chip)
ID6	03117700	10E-2
ID7	03117700	10E-2
ID8	46463700	MC911
ID9	46463900	MC921 (Chip)
•Zener Diode		
IDZ1	46101600	05Z6.2-Y
	or 46101700	05Z6.2-Z
⚠IR42	00130800	10Ω 1/2W N.I.R.
⚠IR43	00130800	10Ω 1/2W N.I.R.
⚠IR47	46250800	1.8kΩ 1W N.I.R.
IC12	07129900	1μF 50V E.B.
IC13	08460800	100μF 10V E.B.
IC14	08460800	100μF 10V E.B.
IC16	08460800	100μF 10V E.B.
IC17	08460800	100μF 10V E.B.
IRL1	46446400	Relay, JC24V
IRL2	46446400	Relay, JC24V
oZ2	46739500	8P Terminal, Speaker
•Diode		
pD1	03117700	10E-2
pR1	46739900	3.9Ω 10W Ce.R.
pRL1	46222200	Relay, 1M G4W

3-4. F-4626 Power Supply Board

Parts No.	Stock No.	Description
•Diode		
⚠mD1	46731500	CTP-21S
⚠mD2	46731400	CTP-21R
⚠mR1	00150600	6.8kΩ 2W N.I.R.
⚠mR2	00150600	6.8kΩ 2W N.I.R.
mC1	48527800	0.01μF 630V F.C.
mC2	48498300	8200μF 95V E.C.
mC3	48498300	8200μF 95V E.C.
mC4	46222800	0.22μF 100V F.C.

3-5. F-4628 AC Fuse Board

Parts No.	Stock No.	Description
⚠pF1	48721800	Fuse 5.0A <XX-V>
⚠pF2	48721800	Fuse 5.0A <XX-V>

3-6. F-5439 Control Board

Parts No.	Stock No.	Description
jS1	48498500	Rotary SW., ATTENUATOR

3-7. F-5433 Power Supply Board (Stock No. 00993801)

Parts No.	Stock No.	Description
•Transistor		
mQ3	07299601	2SA1115
	or 46078701	2SA1048
⚠mQ4	03034401	2SB527
mQ5	03086101	2SD357
mQ6	07299701	2SC2603
	or 46078801	2SC2458
⚠mQ7	46728901	2SC3298
mQ8	07299701	2SC2603
	or 46078801	2SC2458
mQ9	07299601	2SA1115
	or 46078701	2SA1048
⚠mQ10	46728801	2SA1306
•IC		
⚠mIC1	48355900	L7824
•Diode		
⚠mD1	46731500	CTP-21S
⚠mD2	46731400	CTP-21R
⚠mD3	03117000	RB152-LFF
⚠mD4	07193300	UB-152LFF
•Zener Diode		
mDZ2	46104200	05Z15-X
	or 46104300	05Z15-Y
mDZ3	46104200	05Z15-X
	or 46104300	05Z15-Y
mDZ4	46106600	05Z33-X
	or 46106700	05Z33-Y
mDZ5	46106600	05Z33-X
	or 46106700	05Z33-Y
⚠mR1	00150600	6.8kΩ 2W N.I.R.
⚠mR2	00150600	6.8kΩ 2W N.I.R.
⚠mR3	00179000	10Ω 1W N.I.R.

to be continued ►

<F-5433>

Parts No.	Stock No.	Description
⚠mR4	46227400	4.7Ω 1/2W N.I.R.
⚠mR14	46249300	100Ω 1W N.I.R.
⚠mR15	46227800	10Ω 1/2W N.I.R.
⚠mR16	46227400	4.7Ω 1/2W N.I.R.
⚠mR21	46227400	4.7Ω 1/2W N.I.R.
mC5	48527800	0.01μF 630V F.C.
mC15	48527800	0.01μF 630V F.C.

3-8. F-5435 Speaker Switch Board

Parts No.	Stock No.	Description
•LED		
nLD2	48172100	BR3447S, PROTECTOR
nLD3	48172100	BR3447S, OVERSWING
nLD4	48572700	AA3427S, SPEAKER-B
nLD5	48572700	AA3427S, SPEAKER-A
oS3	48169400	Push SW., SPEAKER-A
oS4	48169400	Push SW., SPEAKER-B

3-9. F-5436 Display Switch Board

Parts No.	Stock No.	Description
oS1	48498600	Push SW., PEAK HOLD/DISPLAY

3-10. F-5438 Input Terminal Board

Parts No.	Stock No.	Description
oZ1	22006100	2P Terminal, INPUT

3-11. F-5437 Lamp Board

Parts No.	Stock No.	Description
nPL2	48583000	12V 75mA Pilot Lamp
nPL3	48583000	12V 75mA Pilot Lamp
nPL4	48583000	12V 75mA Pilot Lamp
nPL5	48583000	12V 75mA Pilot Lamp
nPL6	48583000	12V 75mA Pilot Lamp
nPL7	48583000	12V 75mA Pilot Lamp

3-12. F-5440 Indicator Board (Stock No. 00986801)

Parts No.	Stock No.	Description
•Transistor		
nQ1	46367101	2SC2603
	or 46367301	2SC2458
nQ2	46367001	2SA1115
	or 46367201	2SA1048
•IC		
nIC1	46078900	M5218L
nIC2	03610000	TA7318P
nIC3	46078900	M5218L
nIC4	48126200	MSL9356GS
•Diode		
nD1	03117600	1S2473T77
	or 46086000	1S1588TP-3
nD2	03117600	1S2473T77
	or 46086000	1S1588TP-3
nD4	03117600	1S2473T77
	or 46086000	1S1588TP-3
•Zener Diode		
nDZ1	46112700	05Z8.2-Y
	or 46826300	RD8.2E-B3
•LED		
nLD1	03193700	SEL1110S, POWER
nC1	48103400	1μF 50V E.B.
nC2	48103400	1μF 50V E.B.
nC4	48103400	1μF 50V E.B.
nC6	46282900	0.01μF 50V F.C.
nC7	46282900	0.01μF 50V F.C.
nC8	48103600	3.3μF 50V E.B.
nC11	46283300	0.022μF 50V F.C.
nC13	46282900	0.01μF 50V F.C.
nC15	46284100	0.1μF 50V F.C.
nVR1	10343300	100kΩ (B) S.V.R., 0dB Level
nVR2	10342300	2.2kΩ (B) S.V.R., Over Swing Level (L-CH)

3-13. F-5441 Indicator Board

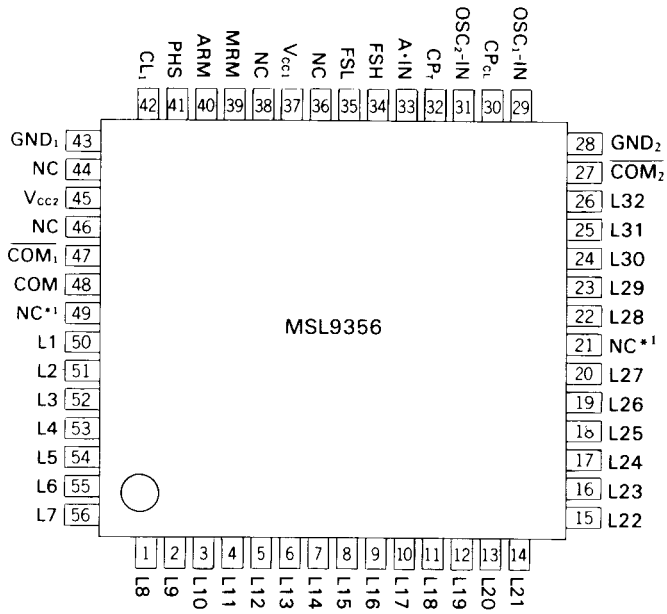
Parts No.	Stock No.	Description
•IC		
nIC5	48126200	MSL9356GS
nVR2	10342300	2.2kΩ (B) S.V.R., Over Swing Level (R-CH)

4. INTERIOR BLOCK DIAGRAM & TERMINAL FUNCTION OF IC

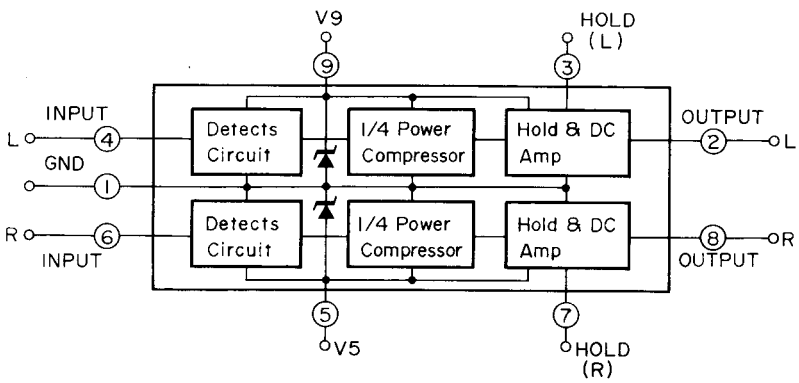
•MSL9356

(Terminal Function of Meter Drive IC MSL9356)

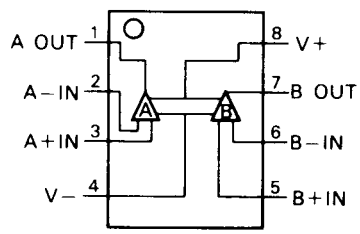
Symbol	Terminal Function
GND_1	GND for All Circuit Except Clock OSC
GND_2	GND for Clock OSC Circuit
$L_{1\sim32}$	Bar Segment Output Terminal
OSC_1-IN	C•R Terminal for Clock OSC
CP_{CL}	Clock Signal Input/Output Terminal
OSC_2-IN	C•R Terminal for Peak Hold Reset Pulse OSC
CP_T	Peak Hold Reset Pulse Input/Output Terminal
A•IN	Analog Signal Input Terminal
FSH	Reference Voltage Output Terminal for Full Scale Adjustment
FSL	Setting Voltage Input Terminal for Full Scale
MRM	Mode Signal Input Terminal for Peak Hold Manual Reset
ARM	Mode Signal Input Terminal for Peak Hold Automatic Reset
PHS	Select Signal Input Terminal for Peak Hold Function
CL_1	C Terminal for Initial Clear
COM_1•COM_2	Phase Reversed Common Signal Output Terminal for Display Other Than Bar Segment
COM	Common Signal Output Terminal for Bar Segment



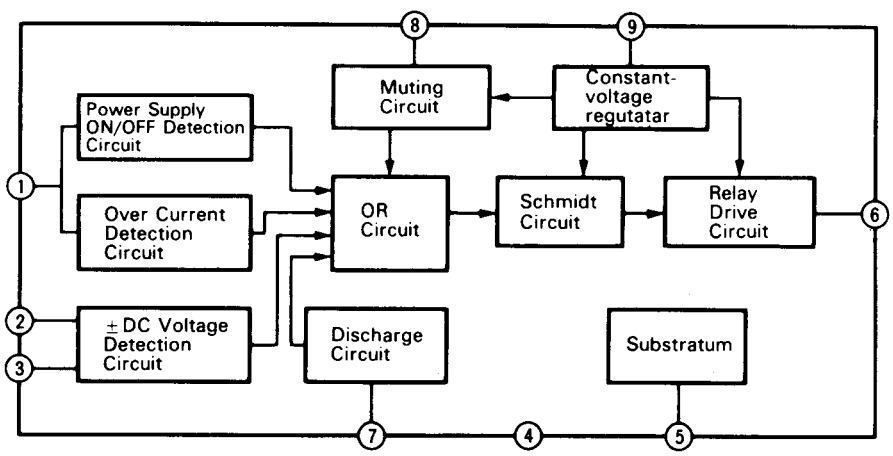
•TA7318P (Meter Drive IC)



•M5218 (Operation Amp)



•TA7317P (Protector IC)



5. ADJUSTMENTS

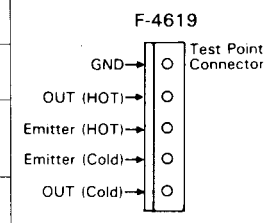
Notes: 1. Room Temperature ..... 18°C ~ 28°C (65°F ~ 83°F)
2. For this adjustment, run the unit for more than 20 minutes after the power is switched ON.
3. Load ..... None

5-1. F-4618 Flat Amp. Board Adjustment (See Top View on page 12)

STEP	SUBJECT	MEASURE OUTPUT	ADJUST	ADJUST FOR	REMARKS
1.	Center DC 0V Adj. <L-CH>	DC Voltage between Test Point & GND of F-4618 L-CH.	jVR1 (F-4618)	DC 0V ± 5 mV	•Attenuater Switch ..... MIN
2.	Center DC 0V Adj. <R-CH>	DC Voltage between Test Point & GND of F-4618 R-CH.	jVR1 (F-4618)	DC 0V ± 5 mV	

5-2. F-4618/F-4619 Driver & Power Amp. Board Adjustment (See Top View on page 12)

STEP	SUBJECT	MEASURE OUTPUT	ADJUST	ADJUST FOR	REMARKS
1.	Hot/Cold Balance Adj. <L-CH>	DC Voltage between Test Point OUT (HOT) and OUT (COLD) of F-4619 <L-CH>	kVR1 (F-4618) L-CH	DC 0V ± 5 mV	•Attenuater Switch ..... MIN •After adjustment step 4, repeat step 1, 2.
2.	Hot/Cold Balance Adj. <R-CH>	DC Voltage between Test Point OUT (HOT) and OUT (COLD) of F-4619 <R-CH>	kVR1 (F-4618) R-CH	DC 0V ± 5 mV	
3.	Center DC 0V Adj. <L-CH>	DC Voltage between Test Point OUT (HOT) and GND of F-4619 <L-CH>	kVR2 (F-4618) L-CH	DC 0V ± 5 mV	
4.	Center DC 0V Adj. <R-CH>	DC Voltage between Test Point OUT (HOT) and GND of F-4619 <R-CH>	kVR2 (F-4618) R-CH	DC 0V ± 5 mV	
5.	Bias Current Adj. <Hot Side Amp. of L-CH>	DC Voltage between Test Point OUT (HOT) and Emitter (HOT) of F-4619 <L-CH>	kVR3 (F-4619) L-CH	DC 6.6 mV (30 mA) ± 2 mV	
6.	Bias Current Adj. <Cold Side Amp. of L-CH>	DC Voltage between Test Point OUT (COLD) and Emitter (COLD) of F-4619 <L-CH>	kVR4 (F-4619) L-CH	DC 6.6 mV (30 mA) ± 2 mV	
7.	Bias Current Adj. <Hot Side Amp. of R-CH>	DC Voltage between Test Point OUT (HOT) and Emitter (HOT) of F-4619 <R-CH>	kVR3 (F-4619) R-CH	DC 6.6 mV (30 mA) ± 2 mV	
8.	Bias Current Adj. <Cold Side Amp. of R-CH>	DC Voltage between Test Point OUT (COLD) and Emitter (COLD) of F-4619 <R-CH>	kVR4 (F-4619) R-CH	DC 6.6 mV (30 mA) ± 2 mV	



5-3. Level Meter Display Adjustment (See Top View on page 12)

Note: Attenuater ..... MAX

SUBJECT	FEED SIGNAL		MEASURE OUTPUT	ADJUST	ADJUST FOR	REMARKS
	FROM	TO				
0 dB Level Adjustment L-CH & R-CH	O.S.C. output 1 kHz so as to obtain 40V (200W) between Speaker Terminals HOT & COLD L-CH & R-CH	INPUT Terminal L-CH & R-CH	Peak Power Display L-CH & R-CH	nVR2 (F-5440) L-CH and nVR2 (F-5441) R-CH	Display Level 0 dB	•Remove the front panel for adjustment of nVR1 & nVR2

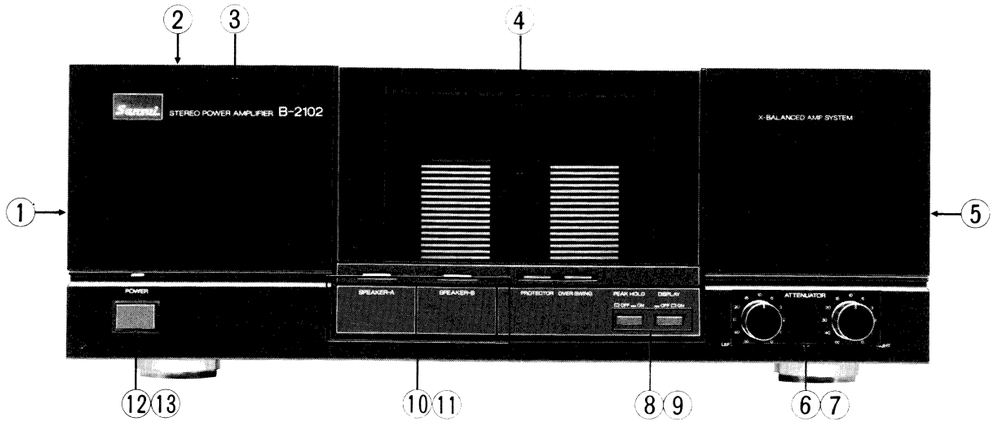
5-4. Over Swing Indicator Adjustment

Note: Load 8Ω

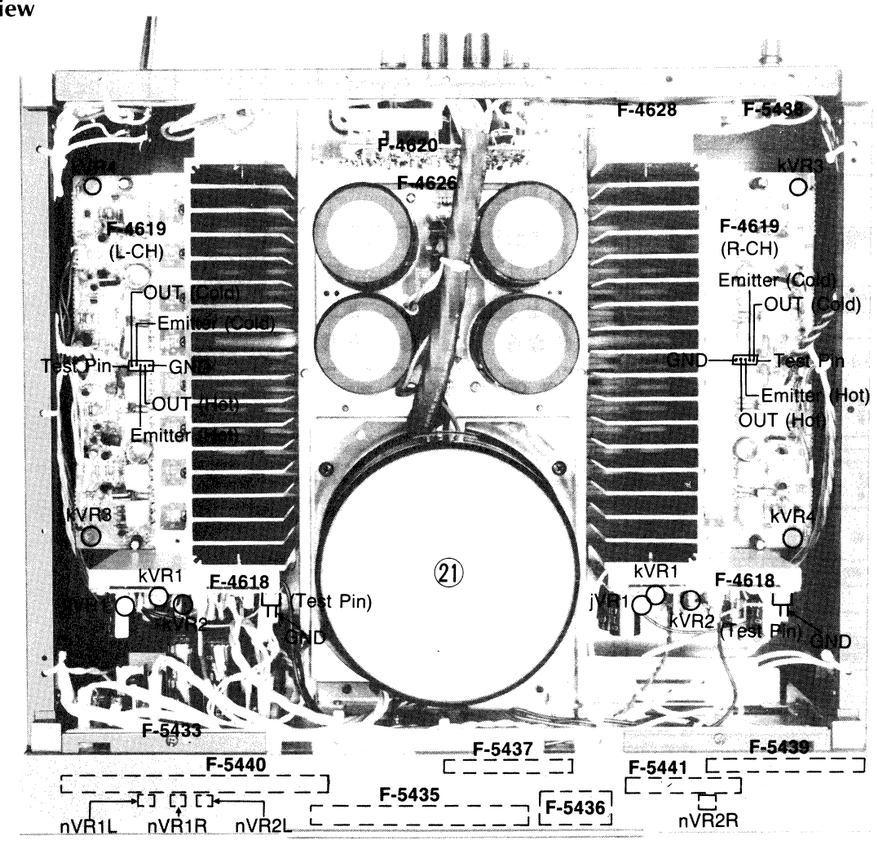
SUBJECT	FEED SIGNAL		MEASURE OUTPUT	ADJUST	ADJUST FOR	REMARKS
	FROM	TO				
Over Swing Indicator Adj.	O.S.C. output 1 kHz so as to obtain 45V between Speaker Terminals HOT & COLD L-CH & R-CH	INPUT Terminal L-CH & R-CH	Over Swing Indicator (nLD3)	1.ATT Volume L-ch—Max R-ch—Min	nVR1, L-ch (F-5440)	Over Swing Indicator (nLD3) is flicked
				2.ATT Volume L-ch—Min R-ch—Max	nVR1, R-ch (F-5440)	

6. OTHER PARTS

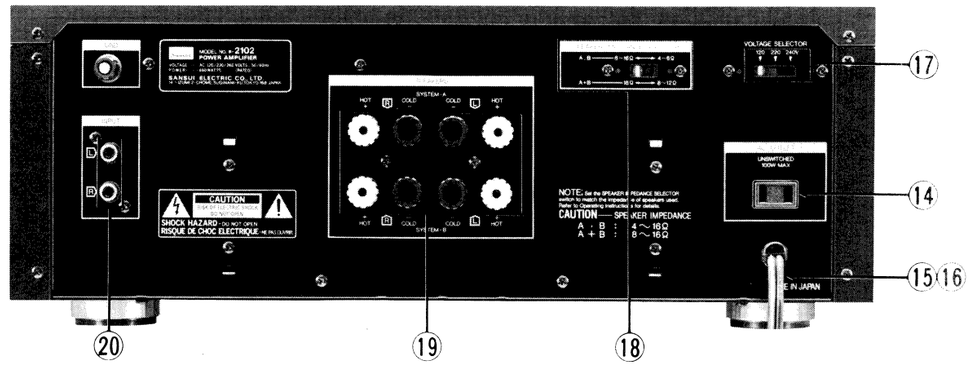
6-1. Front View



6-2. Top View



6-3. Rear View



Parts List <Front, Top & Rear View>

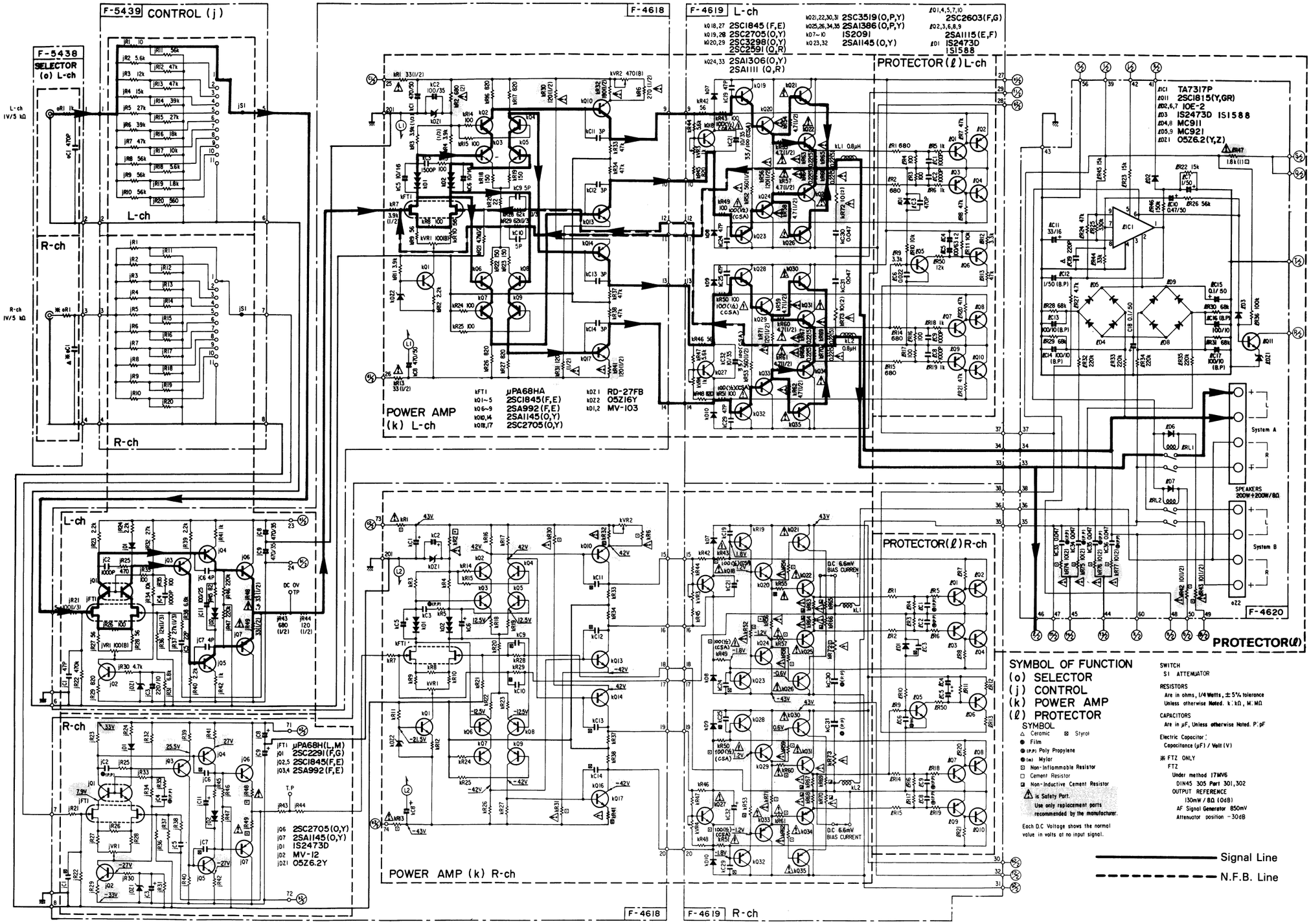
Parts No.	Stock No.	Description
1	27210200	Side Panel Ass'y (L)
2	27224200	Front Panel Ass'y
3	27210700	Bonnet <XX, UL, CSA>
	27210600	Bonnet <EU, UK>
4	48498400	Power Meter
5	27210300	Side Panel Ass'y (R)
6	27209600	Knob ATTENUATOR
7	48498500	Rotary SW., ATTENUATOR
8	27103200	Push Knob, PEAK HOLD, DISPLAY
9	48498600	Push SW., PEAK HOLD, DISPLAY
10	27220000	Knob Spring
11	48169400	Push SW., SPEAKERS A, B
12	47633700	Push Knob, POWER
⚠13	46612900	Push SW., POWER
⚠14	46364900	AC OUTLETS <XX-V>
⚠	46161000	AC OUTLETS <EU>
⚠	48184000	AC OUTLETS-Polarized <XX-V, UL, CSA>
⚠	46364800	AC OUTLETS <UK>

Parts No.	Stock No.	Description
⚠15	38004900	Power Supply Cord <XX-V>
⚠	46128900	Power Supply Cord <EU>
⚠	48188100	Power Supply Cord-Polarized <XX-V, UL, CSA>
⚠	38004300	Power Supply Cord <UK>
⚠	48306700	Power Supply Cord <SEV>
16	39104900	Strain Relief
⚠17	48062100	Slide SW., VOLTAGE SELECTOR <XX-V>
⚠	07204700	Slide SW., VOLTAGE SELECTOR <EU, UK, SEV>
18	46739400	Slide SW., SPEAKER INPEDANCE <XX-V, EU, UK, SEV>
	46736600	Slide SW., SPEAKER INPEDANCE <UL, CSA>
19	46739500	8P Speaker, Terminal
20	22006100	2P Terminal, OUTPUT
⚠21	15025901	Power Transformer <XX-V>
⚠	15025902	Power Transformer <UL, CSA>
⚠	15025905	Power Transformer <EU, UK, SEV>

7. SCHEMATIC DIAGRAM

7-1. Power Amp Section

* Design and specifications subject to change without notice for improvement.
* La présention et les spécifications sont susceptibles d'être modifiées sans préavis par suites d'améliorations éventuelles.
* Änderungen, die dem technischen Fortschritt dienen, bleiben vorbehalten.



SYMBOL OF FUNCTION
(o) SELECTOR
(j) CONTROL
(k) POWER AMP
(ℓ) PROTECTOR

SYMBOL
△ Ceramic ⊠ Styrol
● Film
● (PP) Poly Propylene
● (M) Mylar
⊡ Non-Inflammable Resistor
□ Cement Resistor
◪ Non-Inductive Cement Resistor
⚠ is Safety Part.
Use only replacement parts recommended by the manufacturer.

Each D.C Voltage shows the normal value in volts at no input signal.

SWITCH
S1 ATTENUATOR

RESISTORS
Are in ohms, 1/4 Watts, ± 5% tolerance
Unless otherwise Noted. k: kΩ, M: MΩ

CAPACITORS
Are in μF, Unless otherwise Noted. P: pF

Electric Capacitor:
Capacitance (μF) / Volt (V)

※ FTZ ONLY
FTZ
Under method 17MV6
DIN45 305 Part 301,302
OUTPUT REFERENCE
130mW / 8Ω (0dB)
AF Signal Generator 850mV
Attenuator position −30dB

Signal Line
N.F.B. Line

2SA992 2SB527 2SA1111
2SA1145 2SD357 2SC2591
2SC1815
2SC1845
2SC2705

2SA1048 2SC2291
2SA1115 2SA1306
2SC2458 2SC3298
2SC2603

TA7317P
TA7318P
2SA1386
2SC3519
μPA68HL

M5218L
RB152LFF
UB152LFF

CTP21S
MSL9356GS

CTP21R
MC921
L7824

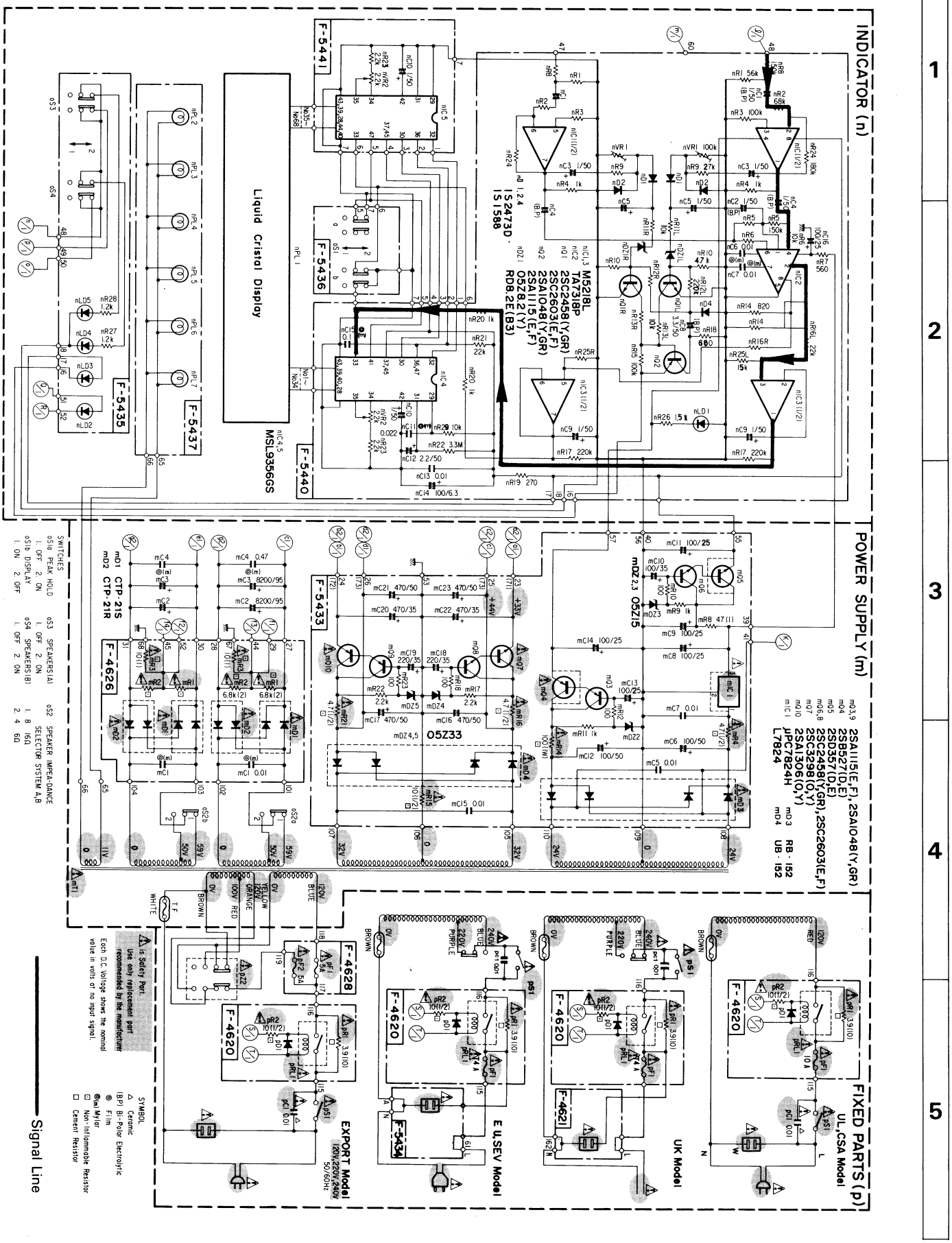
1S1588
1S2091
1S2473
10E-2
MC911

MV12
MV103
05Z6.2
05Z6.2E
05Z15
05Z16
05Z33
RD8.2
RD27F

A	B	C	D

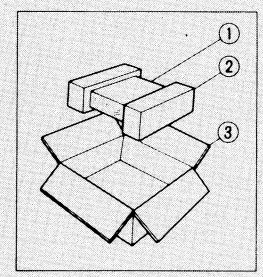
7-2. Peak Power Meter Section

*Design and specifications subject to change without notice for improvement.
*La présention et les spécifications sont susceptibles d'être modifiées sans préavis par suites d'améliorations éventuelles.
*Änderungen, die dem technischen Fortschritt dienen, bleiben vorbehalten.



8. PACKING LIST

Parts No.	Stock No.	Description
1	47858400	Vinly Bag
2	47332830	Styrofoam Packing
3	27209400	Carton Case



9. ACCESSORY LIST

	Stock No.	Description
	49013400	Operating Instruction (*E·F·S)
	49013500	Operating Instruction (*G·I·Sw)

***Note:**
E·F·S: **E**nglish·**F**rench and **S**panish Version
G·I·Sw: **G**erman·**I**talian and **Sw**edish Version

Sansui

SANSUI ELECTRIC CO., LTD.: 14-1, Izumi 2-chome, Suginami-ku, Tokyo 168 Japan
PHONE: (03) 324-8891/TELEX: 232-2076 (International Division)
SANSUI ELECTRONICS CORPORATION: 1250 Valley Brook Ave. Lyndhurst, N.J. 07071 U.S.A.
17150 South Margay Ave. Carson, California 90746 U.S.A.
3036 Koapaka Street. Honolulu, Hawaii 96819 U.S.A.
SANSUI ELECTRONICS (U.K.) LTD.: Unit 10A, Lyon Industrial Estate, Rockware Avenue, Greenford, Middx UB6, OAA, England
SANSUI ELECTRONICS G.M.B.H.: Pau Ehrich Strasse 8, 6074 Rödermark 2, West Germany

(SM1-335) (1986.9.M) <Stock No. 36527600>